

meets Table 1 criteria, intimate contact is not required. Drain tile and/or drain fill material shall be kept outside of the soil component of the composite liner. Refer to the companion documents contained in Chapter 10 of the AWMFH for further guidance.

- e. Wall Joints - Waterstop joints for cast-in-place walls shall be located at the floor waterstop joint locations and shall be continuous with the floor waterstop. Waterstops shall be imbedded non-metallic in accordance with NRCS FOTG Section IV, Wisconsin Construction Specification 4, Concrete.

Joints for pre-cast walls shall demonstrate evidence of equivalent performance to waterstop joints as determined by the NRCS State Conservation Engineer.

C. Specific Criteria For Temporary, Unconfined Stacks of Manure and Derivatives Outside the Animal Production Area

This includes solid type manure and derivatives that are deposited for subsequent loading and spreading. Waste material having less than 16% solids shall not be stacked in the field. Storage of these materials shall be in facilities meeting the criteria in section V.B.1 and 2. Criteria for unconfined waste stacks are shown in Table 9.

Table 9 – Temporary, Unconfined Stacks of Manure and Derivatives Outside the Animal Production Area

1. Waste Consistencies ^{Note 1}	> 32% Solids	16% to 32% Solids ²
2. Size & Stacking Period - Stacking Period - Maximum Volume/Stack - Frequency of Stacking Site Use - Conservation BMPs above and below site ^{Note 3}	8 months ≤ 40,000 cu ft 1 year out of 2 Yes	8 months ≤ 15,000 cu ft 1 year out of 3 Yes
3. Hydrologic Soil Groups	B or C	B or C
4. Subsurface Separation Distance - Saturation (V.A.10) - Bedrock	≥ 3 ft. ≥ 3 ft.	≥ 3 ft. ≥ 5 ft.
5. Surface Separation Distance - Wells ^{Note 4} - Lakes - Sinkholes, or other Karst Features - Quarries - Streams - Wetlands and Surface Inlets - Other Concentrated Flow - Land Slope Down Gradient of Stack - Floodplain	≥ 250 ft. ≥ 1,000 ft. ≥ 1,000 ft. ≥ 1,000 ft. ≥ 300 ft. ≥ 300 ft. ≥ 100 ft. ≤ 6% ≥ 100 ft.	≥ 250 ft. ≥ 1,000 ft. ≥ 1,000 ft. ≥ 1,000 ft. ≥ 500 ft. ≥ 500 ft. ≥ 300 ft. ≤ 3% ≥ 300 ft.

Note 1 Refer to AWMFH, Figure 9-1 for consistency values and Chapter 4 for % solids, for specific livestock types.
 Note 2 16% to 32% solids represents waste at near saturation conditions where additions of free water from runoff, rain, or snowmelt can result in liquid flow conditions.
 Note 3 Stacking sites shall employ conservation BMPs to divert overland flow, and provide buffering to downstream channels and lakes.
 Note 4 Community water system wells may require larger separation distances (see NR 812).